

Coconino County
Community Development
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PROCEDURE FOR OBTAINING A GAS APPLIANCE OR WOOD STOVE PERMIT.

CODES AND SPECIFICATIONS.

- 1.) Gas piping and equipment shall be installed in accordance with (1994) Uniform Plumbing Code.
- 2.) Gas appliances shall be installed in accordance with the manufactures installation specifications and the (1997) Uniform Mechanical Code.
- 3.) Listed wood stove or pellet stove shall be install as per manufactures specification or if unlisted use Coconino County specifications.
- 4.) Gas and mechanical permits are valid for 6 months. This means that all work specified by the permit must be completed within 6 months or the permit will expire. In which time, if the work is not completed a new permit must be obtained.

A PERMIT IS REQUIRED FOR THE FOLLOWING WORK.

- 1.) Converting appliances from electric or propane to natural gas.
- 2.) Installing a new furnace, water heater, space heater, boiler, wood stove or other appliances requiring venting, relocating and replacement.
- 3.) Installing new or relocating gas piping.
- 4.) When extending gas piping for future appliances, the pipe must be caped off and in the interior of structure. No caped off piping in crawl space.

THE FOLLOWING INFORMATION MUST BE PROVIDES WHEN APPLYING FOR A PERMIT.

- 1.) A permit application shall be submitted, filled out completely. This includes parcel #, If in a subdivision we need subdivision name, lot and unit, owners name, complete address and phone #, contractors name, complete address, phone # and license # and type of work being done.
- 2.) Indicate whether the gas permit is for a site built single family dwelling, Manufactured home or accessory building.
- 3.) A floor plan showing the locations of all new or existing appliances.
- 4.) Installation specifications for new appliances shall be required at time of inspection.
- 5.) A plot plan is required when a new or relocated L.P. tank is set.
- 6.) A gas or mechanical permit will not be issued if it is determined that the new or existing gas appliance is in a prohibited location as specified in section 304.5 of the (1997) Uniform Mechanical Code.

FURNACES AND WATER HEATER ARE PROHIBITED IN THE FOLLOWING LOCATIONS.

- 1.) Water heaters and boilers shall not be allowed in under stair locations, bedrooms, bathrooms, clothes closets or in spaces having access through such rooms and spaces.
- 2.) Exception 2 of 1003.1 of the (1997) Uniform Mechanical Code.
Water heaters and boilers installed in closet that has a weather-stripped with threshold, solid door with an approved door closing device, and designed exclusively for the water heater and boiler and where all air for combustion and ventilation is supplied from the outside.
- 3.) Furnaces gas or electric shall not be allowed in under stair locations, bedrooms, bathrooms, clothes closets, or in spaces having access through such rooms.
- 4.) Exception 5 of 304.5 of the (1997) Uniform Mechanical Code.
A warm air furnace in an enclosed space with combustion air obtained from outside the building in conformance with Chapter 7 and having a tight fitting gasketed door with threshold and an approved door closing device may have access through a bathroom or bedroom.
- 5.) Decorative appliances, fireplaces, and room heaters may be un-vented provided they are listed, tested, and equipped with an oxygen depletion sensor and approval is based on a current evaluation report by an approved agency.
these appliances shall not be located in bathrooms, bedrooms, rooms which could be used for sleeping purposes, or manufactured homes. These appliances shall not be used for required heating system for a dwelling unit or any other occupancy. These appliances may only be located in rooms provided there is fifty (50) cubic feet of space per 1000 BTU's of rating.
- 6.) Gas fireplaces and gas logs shall be equipped with a listed device or devices which will shut off the fuel supply to the main burner or burners in the event of a pilot or ignition failure.
- 7.) All gas appliances shall be installed in accordance with the manufactured specifications and listing.

GAS PIPING INSTALLATION.

- 1.) All new or existing gas piping must be installed in accordance with the (1994) Uniform Plumbing Code.
- 2.) Gas piping shall not be buried under any structure. The definition of structures shall include: Building, regardless of use, i.e. dwellings, garages, additions, sheds, decks, covered decks, covered porches, slab on grade, manufactured homes, carports and other similar buildings.
- 3.) Gas piping material shall be machine coated pipe for below grade installations.
Non-coated black iron pipe is allowed above grade (6" minimum.) Only.
Non-coated pipe riser may be used provided the sections which are below grade are wrapped with approved pipe wrap material for a height of not less than 8" above grade. All buried joints shall be wrapped.
- 4.) Gas piping that is under drive Ways shall be sleeved and vented by approved methods and approved materials.
- 5.) Other types of gas piping material must be approved by the Building Official.

- 6.) The depth of all metal gas piping shall not be less than 12" below grade from top of pipe. Backfilling shall be allowed in order to obtain the required depth of the gas pipe, in the event that rock is present and will not allow the proper depth. The backfilled section of the trench shall not create a mound which rises substantially above the natural terrain. Gas piping which does not meet the required depth, may be encased in not less than 2" of concrete as an alternative to backfilling with the approval of the Building official.
- 7.) Gas shut off valves, Amend Uniform Mechanical Code 1312.10 by adding Uniform Mechanical Code 1312.10.1 as follows:
All structures served by gas shall have an APPROVED gas shut off valve on the piping, located outside and adjacent to the building, near where the pipe enters the building. The valve shall be rated for exterior use.
- 8.) An isolating union shall be installed on the discharge (building) side of the shut off valve when any portion of the gas yard line is installed below grade. Non-isolating unions are required on all other gas piping installation.
- 9.) Gas yard piping for manufactured homes shall be installed below grade to the riser location in all circumstances. A manufactured home rated flex connector, shut off and isolating union shall be installed. The gas pipe coming from the manufactured home shall stub out a minimum of 4".
- 10.) The arrangement of gas shut off valves, flex connectors, unions both non- isolating and isolating, risers, and gas piping are illustrated in the Coconino County details. All gas piping for conversion or change over from electric to gas must conform to either the manufactured home detail or the single family dwelling detail.

WOOD STOVE OR PELLET STOVE INSTALLATION.

- 1.) Listed wood stove or pellet stove shall be installed to manufacture's specifications and clearances.
- 2.) Unlisted wood stove or pellet stove shall meet minimum Coconino County clearances. See amendments below.
- 3.) Coconino County unlisted wood stove or pellet stove clearances.
 - a. 36" to combustibles when unprotected.
 - b. 18" to combustibles when protect by 26 gauge sheet steel or 1/4" non-combustible mill board (listed) and 1" convective air space.
 - c. 24" to combustibles when protected by 4" of brick on the wall.
 - d. 12" to combustible when protected by 4" of brick and a 1" convective air space.
 - e. Stove pipe 18" to combustibles when unprotected. 9" to combustibles when protected by an **APPROVED HEAT SHIELD**.
 - f. Hearth protection for floor – brick or stone attached and mortared to the floor. Brick on mill board contained by a wooden frame.
 - g. Hearth extension – 18" front, 12" sides, 12" rear or to the protected wall.

GAS STOVE OR WOOD BURNING APPLIANCES IN GARAGES.

- 1.) Any gas appliance or wood burning appliance installed in a garage, shall be installed 18" off the floor of the garage

INSPECTIONS AND APPROVALS.

- 1.) It is the responsibility of the owner or the contractor to insure that the work is Completed prior to scheduling an inspection. (No same day inspections).
- 2.) The gas yard line shall be installed up to the meter riser with a pressure test.
- 3.) All interior gas piping shall be installed to the appliances and have a pressure test.
- 4.) All appliances i.e. furnace, water heater, boiler, space heaters, fireplaces, decorative appliances and others gas appliances, shall be fully installed and ready for inspection. Have manufacture's specifications on job site for Inspector.
- 5.) The pressure test for yard lines and interior gas lines shall be 10 psi for 15 minutes.
- 6.) If a 2 stage regulator system is required, the pressure test shall be 60 psi for 30 minutes.
- 7.) Approved shut off valve, unions both non-isolating and isolating, and flex connector (For Manufactured Homes) shall be installed and ready for inspection.
- 8.) The gas line shall not be approved or "**Green Tagged**" unless all of the above have been completed and inspected.
- 9.) A \$47.00 Re-inspection fee will be charged if the inspector is on site and the work is not completed and ready for inspection or the inspector is unable to do the inspection.